

Applying the 2012 National Electrical Safety Code® (NESC®) to Day-to-Day Utility Work (2-Day)

Class Schedule—Day 1

- 8:00 a.m. Registration begins
8:30 a.m. Welcome
8:45 a.m. ♦ **Introduction—Sections 01, 02, 03, 09**
The Four Parts of the NESC®
Purpose and Scope of the NESC®
The NESC® vs. the NEC
Definitions and References
Grounding Methods for Substations & Lines
♦ **Part 1—Electric Supply Stations**
Substation Fences
Safety Signs
Storage
Clearances
Guards
10:15 a.m. **Break**
10:30 a.m. ♦ **Part 2—Overhead Lines**
Inspection and Tests of Overhead Lines
Readily Climbable Structures
Tree Clearing
Understanding a Sag and Tension Table
The 10 Rules of Overhead Line Clearance
Most Popular Table in NESC®, Table 232-1
12 Noon **Lunch**
1:00 p.m. ♦ **Part 2—Overhead Lines (continued)**
2nd Most Popular Table, Table 234-1
Climbing Space and Working Space
Joint Use Overhead Clearances
Communication Worker Safety Zone
Grades of Construction
Overload and Strength Factors
2:30 p.m. **Break**
2:45 p.m. ♦ **Part 3—Underground Lines**
UG Conduit vs. Direct Buried Systems
Burial Depths
Pulling Tensions and Side Wall Pressures
Manholes and Vaults
Joint Use Underground Installations
♦ **Part 4—Work Rules**
4 Rules of Operating Supply & Comm. Lines
The NESC® vs. OSHA
General Rules for Employers and Employees
Additional Rules for Communication Workers
Additional Rules for Supply Workers
4:15 p.m. **Adjourn**

Class Schedule—Day 2 (Examples and Exercises)

- 8:30 a.m. Welcome
8:45 a.m. ♦ Substation Examples & Exercises
10:15 a.m. Break
10:30 a.m. ♦ OH Line Examples & Exercises
12 Noon Lunch
1:00 p.m. ♦ OH Line Examples & Exercises
(Continued)
2:30 p.m. Break
2:45 p.m. ♦ UG Line Examples & Exercises
4:15 p.m. Adjourn

About the Seminar:

This NESC® seminar is a two-day class focusing on the rules in the National Electrical Safety Code® (NESC®). The class will provide a general overview of each part of the NESC® (Day 1). Applying the Code to day-to-day work will be stressed by focusing on practical NESC® examples and applications (Day 2). The class is intended for engineers, staking technicians, power linemen, communications linemen, safety personnel and inspectors. Prior working knowledge of the NESC® is not required. The class includes ample time for questions and attendees are encouraged to share their NESC® applications with the class. The presentation is rich in graphics.

About the Instructor:

This course has been prepared under the direction of David J. Marne, P.E. Dave is the author of *McGraw-Hill's NESC® 2012 Handbook*. The class will be presented by Dave or one of Marne and Associates qualified presenters. Presenters have various experience with NESC® code applications, transmission design, distribution design, substation design, and joint use power and communication design.

CONTINUING EDUCATION UNITS

This course provides 1.2 Continuing Education Units (CEUs) or 12 Professional Development Hours (PDHs). Please note that the CEU/PDH units for this class are not registered with any state education or licensing board.



Marne and Associates, Inc.
Experts in Electrical Code



Attendees are encouraged to bring a calculator and a copy of the NESC® Codebook and McGraw-Hill's NESC® Handbook. These books are available at www.codehandbook.com.